Abstract of the Disclosure

A computer-based 3D imaging method is for a wireless endoscope unit, equipped with a camera, of the size of a capsule that can be swallowed by the patient. A medical apparatus is for the pseudo three-dimensional representation of the surroundings of the endoscope unit. The images recorded by the camera aresubjected to a pattern recognition algorithm for identifying common features of chronologically successive individual images. Individual images that show spatially coherent structures are concatenated by superimposing common image features in the course of an image conditioning procedure in order to produce a pseudo three-dimensional representation.